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Willow Cottage Herne Lane Rustington BN16 3EE			1 Deepdene Close Middleton Geocell			
Date 2 October 2017 File Geocell.SRCX			Designed by RTFC Checked by			
Micro Drainage			Source Control 2016.1			

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Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	9.125	0.525	0.1	2.5	OK
60 min Winter	9.252	0.652	0.1	3.1	OK
120 min Winter	9.359	0.759	0.1	3.6	OK
180 min Winter	9.399	0.799	0.1	3.8	OK
240 min Winter	9.412	0.812	0.1	3.8	OK
360 min Winter	9.407	0.807	0.1	3.8	OK
480 min Winter	9.398	0.798	0.1	3.8	OK
600 min Winter	9.382	0.782	0.1	3.7	OK
720 min Winter	9.362	0.762	0.1	3.6	OK
960 min Winter	9.318	0.718	0.1	3.4	OK
1440 min Winter	9.232	0.632	0.1	3.0	OK
2160 min Winter	9.121	0.521	0.1	2.5	OK
2880 min Winter	9.031	0.431	0.1	2.0	OK
4320 min Winter	8.897	0.297	0.1	1.4	OK
5760 min Winter	8.802	0.202	0.1	1.0	OK
7200 min Winter	8.732	0.132	0.1	0.6	OK
8640 min Winter	8.682	0.082	0.1	0.4	OK
10080 min Winter	8.651	0.051	0.0	0.2	OK

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	77.804	0.0	33
60 min Winter	49.937	0.0	62
120 min Winter	30.956	0.0	118
180 min Winter	23.058	0.0	176
240 min Winter	18.577	0.0	230
360 min Winter	13.656	0.0	290
480 min Winter	10.974	0.0	364
600 min Winter	9.254	0.0	442
720 min Winter	8.046	0.0	520
960 min Winter	6.447	0.0	668
1440 min Winter	4.709	0.0	954
2160 min Winter	3.432	0.0	1368
2880 min Winter	2.739	0.0	1764
4320 min Winter	1.989	0.0	2548
5760 min Winter	1.583	0.0	3288
7200 min Winter	1.325	0.0	3968
8640 min Winter	1.147	0.0	4664
10080 min Winter	1.015	0.0	5152

Willow Cottage

1 Deepdene Close

Herne Lane

Middleton

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Geocell

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.008

Time (mins)	Area
From:	To: (ha)

0	4 0.008
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Model Details

Storage is Online Cover Level (m) 10.000

Cellular Storage Structure

Invert Level (m) 8.600
Infiltration Coefficient Base (m/hr) 0.04560
Infiltration Coefficient Side (m/hr) 0.04560
Safety Factor 1.5
Porosity 0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.0	5.0	0.900	0.0	14.6
0.800	5.0	14.6			